**Compliance Check AS 1940-2017 The storage and handling of flammable and combustible liquids**

|  |  |
| --- | --- |
| **Company Name:**  |  |
| Location of Proposed/Existing Storage or Handling Facility: |  |

 **Details of Proposed/Existing Flammable Liquid or Combustible Liquid Store**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Class 3 or Combustible****Liquid** | **UN No** | **Name of Dangerous Good** | **Quantity(kL)** | **Description of Storage (Tank or Package)** | **ID Number(if applicable)** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

 **AS 1940-2017 The storage and handling of flammable and combustible liquids**

| **SECTION 1 SCOPE AND GENERAL** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 1.1 Scope | 8 |  |  |  |
| 1.2 Application | 8 |  |  |  |
| 1.3 Normative References | 9 |  |  |  |
| 1.4 Definitions | 9 |  |  |  |

| **SECTION 2 MINOR STORAGE** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 2.1 Scope of Section | 20 |  |  |  |
| 2.2 Minor Storage Quantities | 20 |  |  |  |
| 2.3 Precautions Applying To Minor Storage | 26 |  |  |  |
| 2.4 Minor Storage In Tanks | 27 |  |  |  |

| **SECTION 3 GENERAL REQUIREMENTS** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 3.1 Scope of Section | 28 |  |  |  |
| 3.2 General Design and Construction Requirements | 28 |  |  |  |
| 3.3 Mechanical Equipment and Installations | 30 |  |  |  |
| 3.4 Electrical Installations and Equipment | 30 |  |  |  |
| 3.5 Internal Combustion Engines | 30 |  |  |  |
| 3.6 Lighting | 31 |  |  |  |
| 3.7 Restricted Usage | 31 |  |  |  |
| 3.8 Firewalls and Vapour Barriers | 31 |  |  |  |
| 3.9 Security, Signs and Notices | 32 |  |  |  |
| 3.10 Transit Storage | 32 |  |  |  |
| 3.11 Ignition Sources | 34 |  |  |  |

| **SECTION 4 PACKAGE STORAGE AND HANDLING AREAS** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 4.1 Scope Of Section | 35 |  |  |  |
| 4.2 Types Of Stores | 35 |  |  |  |
| 4.3 Location And Separation Distances | 39 |  |  |  |
| 4.4 Construction | 43 |  |  |  |
| 4.5 Ventilation | 45 |  |  |  |
| 4.6 General Requirements | 51 |  |  |  |
| 4.7 Storage of IBCs | 51 |  |  |  |
| 4.8 Storage In Freight Containers | 51 |  |  |  |
| 4.9 Storage In Storage Cabinets | 52 |  |  |  |
| 4.10 Activities Within Package Stores | 54 |  |  |  |
| 4.11 Offices Within Package Stores | 54 |  |  |  |

| **SECTION 5 STORAGE IN TANKS** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 5.1 Scope Of Section | 55 |  |  |  |
| 5.2 General Requirements | 56 |  |  |  |
| 5.3 Storage Tank Fill Points | 58 |  |  |  |
| 5.4 Venting | 59 |  |  |  |
| 5.5 Emergency Venting | 63 |  |  |  |
| 5.6 Location And Capacity of Indoor Tanks | 64 |  |  |  |
| 5.7 Separation Of Above-Ground Tanks | 65 |  |  |  |
| 5.8 Bunds and Compounds | 68 |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SECTION 5 STORAGE IN TANKS** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| 5.9 Requirements For Above-Ground Tanks With Integral Secondary Containment | 71 |  |  |  |
| 5.10 Requirements For Tank Containers (ISO tanks, Portable Tanks) Including IBCs When Used As Static Storage Tanks | 73 |  |  |  |
| 5.11 Installation Methods For Above-Ground Tanks | 73 |  |  |  |
| 5.12 Installation Methods For Underground Tanks | 74 |  |  |  |
| 5.13 Installation Methods For Tanks In Tank Chambers | 75 |  |  |  |
| 5.14 Service Tanks | 76 |  |  |  |

| **SECTION 6 SYSTEMS FOR PIPING, VALVES, PUMPS AND TANK HEATING** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 6.1 General Design And Construction | 78 |  |  |  |
| 6.2 Piping | 78 |  |  |  |
| 6.3 Valves | 80 |  |  |  |
| 6.4 Pumps | 81 |  |  |  |
| 6.5 Heating Of Liquids | 81 |  |  |  |

| **SECTION 7 FUEL DISPENSING** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 7.1 Scope of Section | 83 |  |  |  |
| 7.2 General Requirements | 83 |  |  |  |
| 7.3 Dispensers | 84 |  |  |  |
| 7.4 Delivery Hoses And Nozzles | 86 |  |  |  |
| 7.5 Marine Dispensers | 86 |  |  |  |
| 7.6 Operations | 87 |  |  |  |

| **SECTION 8 TANK VEHICLE LOADING FACILITIES** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 8.1 Scope Of Sections | 89 |  |  |  |
| 8.2 General Requirements | 89 |  |  |  |
| 8.3 Top-Filling Installations | 91 |  |  |  |
| 8.4 Bottom-Loading Facilities | 92 |  |  |  |

| **SECTION 9 OPERATIONALAND PERSONNEL SAFETY** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 9.1 Scope of Section | 94 |  |  |  |
| 9.2 General Precautions | 94 |  |  |  |
| 9.3 Operating Procedures | 97 |  |  |  |
| 9.4 Management Of Leaks and Spills | 98 |  |  |  |
| 9.5 Placarding | 100 |  |  |  |
| 9.6 Liquid Transfer | 100 |  |  |  |
| 9.7 Effluent Control | 100 |  |  |  |
| 9.8 Construction And Maintenance Work | 100 |  |  |  |
| 9.9 Gas-Freeing Of Tanks And Packages | 103 |  |  |  |
| 9.10 Personnel Training | 103 |  |  |  |
| 9.11 Records | 104 |  |  |  |
| 9.12 Personal Protective Equipment(PPE) | 105 |  |  |  |
| 9.13 First Aid | 105 |  |  |  |
| 9.14 Additional Requirements For The Storage And Handling Of Packages | 106 |  |  |  |
| 9.15 Additional Requirements For Piping And Valve Systems | 108 |  |  |  |
| 9.16 Additional Requirements For Pipework | 108 |  |  |  |
| 9.17 Additional Requirements For Tanks | 108 |  |  |  |
| 9.18 Bulk Transfer | 113 |  |  |  |

| **SECTION 10 EMERGENCY MANAGEMENT** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 10.1 Scope of Section | 116 |  |  |  |
| 10.2 Planning for Emergencies | 116 |  |  |  |
| 10.3 Manifest | 117 |  |  |  |
| 10.4 Placarding | 117 |  |  |  |

| **SECTION 11 FIRE PROTECTION** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 11.1 Scope of Section | 118 |  |  |  |
| 11.2 Application of Section | 118 |  |  |  |
| 11.3 General Requirements For Fire Protection Equipment | 118 |  |  |  |
| 11.4 Portable Fire Extinguishers | 120 |  |  |  |
| 11.5 Fixed Fire Protection And Detection Systems | 121 |  |  |  |
| 11.6 Fire Protection Requirements For Product Pumps, Manifolds, And Hose Connection Points | 123 |  |  |  |
| 11.7 Fire Protection Requirements for Tank Vehicle Transfer Areas | 123 |  |  |  |
| 11.8 Fire Protection Requirements For Package Storage And Handling Areas | 124 |  |  |  |
| 11.9 Fire Protection Requirements for Fuel Dispensing Installations | 127 |  |  |  |
| 11.10 Fire Protection Requirements For Above-Ground Fire-Rated Tanks, Tanks Underground Or In Chambers | 127 |  |  |  |
| 11.11 Fire Protection Requirements For Above-Ground Tank Storage of Aggregate Capacity Less Than 60 m3 | 127 |  |  |  |
| 11.12 Fire Protection Requirements For Above-Ground Tank Storage of Aggregate Capacity 60 m3 To 2000m3 | 129 |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SECTION 11 FIRE PROTECTION** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| 11.13 Fire Protection Requirements For Above-Ground Tank Storage of Aggregate Capacity 2000 m3 And Greater | 130 |  |  |  |
| 11.14 Piping And Pumping Systems | 132 |  |  |  |
| 11.15 Cooling Water | 133 |  |  |  |
| 11.16 Fixed Foam Systems For Tanks | 134 |  |  |  |

| **SECTION 12 WASTE STORAGE AND DISPOSAL** | **Page**  | **AS 1940 Specification** | **Describe what is proposed/actual to demonstrate compliance** | **Complies****(Y/N/NA)** |
| --- | --- | --- | --- | --- |
| 12.1 Scope of Section | 139 |  |  |  |
| 12.2 Storage of Wastes  | 139 |  |  |  |
| 12.3 Waste Management | 139 |  |  |  |
| 12.4 Waste Disposal | 139 |  |  |  |
| 12.5 Pre-Disposal Treatment Of Empty Containers | 139 |  |  |  |
| 126 Methods of Disposal | 140 |  |  |  |

**Areas of Non-conformance and Action Plan**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Non Conformance Number**  | **Section** **Number** | **Action Plan** | **Actionby** | **Due****Date** | **Completion****Date** | **Comments** |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Compliance check summary**

This **proposed** / **existing** - Flammable Liquid/Combustible Liquid – tank or package store - complies/does not comply with AS 1940-2017.

 **Name of assessor/s** …………………………………………………… ……………………………………………………………… **Date** ……………………

**Signature/s** ……………………………………………………………… **Date of next review** …………………………………………………………………